

What Is Claimed Is:

1. A method for analyzing genomic DNA, comprising the steps of:

- (a) treating genomic DNA with a first restriction enzyme;
- (b) linking one end of an adapter to the restriction enzyme cleavage site, and labeling the other end of said adapter;
- (c) treating the resulting DNA fragments with a second restriction enzyme to bring about first-dimensional fractionation;
- (d) treating the fractionated DNA fragments of step (c) with a third restriction enzyme to bring about second-dimensional fractionation; and
- (e) detecting the spots of the labeled DNA fragments fractionated in step (d).

2. A method according to Claim 1, wherein the first restriction enzyme is one which is capable of cutting the genomic DNA so that the 3' end of the recognition site has a protruding sticky end.

3. A method according to Claim 1, wherein the first restriction enzyme is *Bst*XI, *Bgl*II, or *Mwo*I.

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Sub A2 4. A genomic DNA analytical pattern, which has been obtained by means of a method of analysis according to any of Claims 1 through 3.

Sub B2 5. A pattern according to Claim 4, wherein the pattern is one represented by Figs. 4, 5, 6, or 8.

add A3

add B4

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